

SEQLIST  
SEQUENCE LISTING

<110> Zhang, Dongxiao  
Yu, Guoliang  
Pytela, Robert  
Couto, Joseph

<120> Humanized Rabbit Antibodies

<130> EPIT-001

<140> filed herewith  
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<150> 60/404,117  
<151> 2002-08-15

<160> 63

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<212> PRT  
<213> Oryctolagus cuniculus

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20          25          30
Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly Arg Phe Thr Ile Ser
35          40          45
Lys Thr Ser Thr Thr Val Asp Leu Lys Ile Thr Ser Pro Thr Thr Glu
50          55          60
Asp Thr Ala Thr Tyr Phe Cys Ala Arg Trp Gly Thr Gly Thr Leu Val
65          70          75          80
Thr Ile Ser Ser
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<210> 2  
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<213> Oryctolagus cuniculus

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Leu Thr Leu Thr Cys Thr Val Ser Gly Phe Ser Leu Ser Trp Val Arg
20          25          30
Gln Ala Pro Gly Asn Gly Leu Glu Trp Ile Gly Arg Ser Thr Ile Thr
35          40          45
Arg Asn Thr Asn Leu Asn Thr Val Thr Leu Lys Met Thr Ser Leu Thr
50          55          60
Ala Ala Asp Thr Ala Thr Tyr Phe Cys Ala Arg Trp Gly Gln Gly Thr
65          70          75          80
Leu Val Thr Val Ser Ser
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# SEQLIST

<210> 3  
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 <213> *Oryctolagus cuniculus*

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 Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Ala Arg Phe Thr Ile Ser  
 35 40 45  
 Lys Thr Ser Ser Thr Thr Val Thr Leu Gln Met Thr Ser Leu Thr Ala  
 50 55 60  
 Ala Asp Thr Ala Thr Tyr Phe Cys Ala Arg Trp Gly Pro Gly Thr Leu  
 65 70 75 80  
 Val Thr Val Ser Ser  
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<210> 4  
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 <213> *Homo sapiens*

<400> 4  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
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 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Val  
 20 25 30  
 Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Phe Thr Ile  
 35 40 45  
 Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu  
 50 55 60  
 Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Trp Gly Arg Gly  
 65 70 75 80  
 Thr Leu Val Thr Val Ser Ser  
 85

<210> 5  
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 <213> *Homo sapiens*

<400> 5  
 Glu Val Gln Leu Val Glu Thr Gly Gly Gly Leu Ile Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Trp Val  
 20 25 30  
 Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Phe Thr Ile  
 35 40 45  
 Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu  
 50 55 60  
 Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Trp Gly Gln Gly  
 65 70 75 80  
 Thr Met Val Thr Val Ser Ser  
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# SEQLIST

<213> Homo sapiens

<400> 6

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1      5      10      15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Trp Val
      20      25      30
Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Phe Thr Ile
      35      40      45
Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu
      50      55      60
Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Trp Gly Gln Gly
      65      70      75      80
Thr Thr Val Thr Val Ser Ser
      85

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<210> 7

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<212> PRT

<213> Mus musculus

<400> 7

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Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
 1      5      10      15
Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Trp Val
      20      25      30
Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu Gly Arg Leu Ser Ile
      35      40      45
Ser Lys Asp Asn Ser Lys Ser Gln Val Phe Leu Lys Met Asn Ser Leu
      50      55      60
Gln Thr Asp Asp Thr Ala Met Tyr Tyr Cys Ala Arg Trp Gly Gln Gly
      65      70      75      80
Thr Leu Val Thr Val Ser Ala
      85

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<210> 8

<211> 87

<212> PRT

<213> Mus musculus

<400> 8

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Glu Val Met Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1      5      10      15
Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Val
      20      25      30
Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val Ala Arg Phe Thr Ile
      35      40      45
Ser Arg Asp Asn Ala Lys Asn Asn Leu Tyr Leu Gln Met Ser Ser Leu
      50      55      60
Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg Trp Gly Ala Gly
      65      70      75      80
Thr Thr Val Thr Val Ser Ser
      85

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<210> 9

<211> 87

<212> PRT

<213> Mus musculus

<400> 9

SEQLIST

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Ser	Leu	Lys	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Trp	Val
			20					25					30		
Arg	Gln	Ser	Pro	Glu	Lys	Arg	Leu	Glu	Trp	Val	Ala	Arg	Phe	Thr	Ile
		35					40					45			
Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Ser	Ser	Leu
	50					55					60				
Lys	Ser	Glu	Asp	Thr	Ala	Met	Tyr	Tyr	Cys	Thr	Arg	Trp	Gly	Gln	Gly
65					70					75					80
Thr	Thr	Leu	Thr	Val	Ser	Ser									
				85											

<210> 10  
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 <213> Oryctolagus cuniculus

<400> 10

Ala	Tyr	Asp	Met	Thr	Gln	Thr	Pro	Ala	Ser	Val	Glu	Val	Ala	Val	Gly
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Gly	Thr	Val	Thr	Ile	Lys	Cys	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Arg
			20					25					30		
Pro	Lys	Leu	Leu	Ile	Tyr	Gly	Val	Ser	Ser	Arg	Phe	Lys	Gly	Ser	Gly
		35					40					45			
Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Gly	Val	Glu	Cys	Ala	Asp
	50					55				60					
Ala	Ala	Thr	Tyr	Tyr	Cys	Phe	Gly	Gly	Gly	Thr	Glu	Val	Val	Val	Lys
65					70					75					80

<210> 11  
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 <213> Oryctolagus cuniculus

<400> 11

Asp	Val	Val	Met	Thr	Gln	Thr	Pro	Ala	Ser	Val	Ser	Glu	Pro	Val	Gly
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Gly	Thr	Val	Thr	Ile	Lys	Cys	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Pro
			20					25					30		
Pro	Lys	Leu	Leu	Ile	Ser	Gly	Val	Ser	Ser	Arg	Phe	Lys	Ala	Ser	Arg
		35					40					45			
Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Asp	Leu	Glu	Cys	Ala	Asp
	50					55				60					
Ala	Ala	Thr	Tyr	Tyr	Cys	Phe	Gly	Gly	Gly	Thr	Lys	Val	Val	Val	Glu
65					70					75					80

<210> 12  
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 <213> Oryctolagus cuniculus

<400> 12

Ala	Leu	Val	Met	Thr	Gln	Thr	Pro	Ala	Ser	Val	Ser	Ala	Ala	Val	Gly
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Gly	Thr	Val	Thr	Ile	Lys	Cys	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Pro
			20					25					30		
Pro	Lys	Leu	Leu	Ile	Tyr	Gly	Val	Pro	Ser	Arg	Phe	Lys	Gly	Ser	Arg
		35					40					45			
Ser	Gly	Thr	Glu	Tyr	Thr	Leu	Thr	Ile	Ser	Gly	Val	Gln	Arg	Glu	Asp

SEQLIST

50 55 60  
Ala Ala Thr Tyr Tyr Cys Phe Gly Gly Gly Thr Glu Leu Glu Ile Leu  
65 70 75 80

<210> 13  
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<213> Oryctolagus cuniculus

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Glu Val Val Met Thr Gln Thr Pro Ala Ser Val Glu Ala Ala Val Gly  
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Gly Thr Val Thr Ile Lys Cys Trp Tyr Gln Gln Lys Pro Gly Gln Arg  
20 25 30  
Pro Asn Leu Leu Ile Tyr Gly Val Pro Ser Arg Phe Lys Gly Ser Arg  
35 40 45  
Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Gly Val Gln Arg Glu Asp  
50 55 60  
Ala Ala Thr Tyr Tyr Cys Phe Gly Thr Gly Thr Lys Val Glu Ile Lys  
65 70 75 80

<210> 14  
<211> 80  
<212> PRT  
<213> Homo sapiens

<400> 14  
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
1 5 10 15  
Asp Arg Val Thr Ile Thr Cys Trp Tyr Gln Gln Lys Pro Gly Lys Ala  
20 25 30  
Pro Lys Leu Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly  
35 40 45  
Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp  
50 55 60  
Phe Ala Thr Tyr Tyr Cys Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
65 70 75 80

<210> 15  
<211> 80  
<212> PRT  
<213> Homo sapiens

<400> 15  
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly  
1 5 10 15  
Asp Arg Val Thr Ile Thr Cys Trp Tyr Gln Gln Lys Pro Gly Lys Ala  
20 25 30  
Pro Lys Leu Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly  
35 40 45  
Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp  
50 55 60  
Phe Ala Thr Tyr Tyr Cys Phe Gly Pro Gly Thr Lys Val Asp Ile Lys  
65 70 75 80

<210> 16  
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<212> PRT  
<213> Homo sapiens

# SEQLIST

<400> 16

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1				5				10					15		
Asp	Arg	Val	Thr	Ile	Thr	Cys	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala
			20					25					30		
Pro	Lys	Leu	Leu	Ile	Tyr	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly
		35				40					45				
Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp
	50					55					60				
Phe	Ala	Thr	Tyr	Tyr	Cys	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
65					70					75					80

<210> 17

<211> 80

<212> PRT

<213> Mus musculus

<400> 17

Glu	Ile	Val	Met	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Val	Ser	Pro	Gly
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Glu	Arg	Ala	Thr	Leu	Ser	Cys	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala
			20					25					30		
Pro	Arg	Leu	Leu	Ile	Tyr	Gly	Ile	Pro	Ala	Arg	Phe	Ser	Gly	Ser	Gly
		35				40					45				
Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Ser	Glu	Asp
	50					55					60				
Phe	Ala	Val	Tyr	Tyr	Cys	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys
65					70					75					80

<210> 18

<211> 80

<212> PRT

<213> Mus musculus

<400> 18

Asp	Ile	Gln	Met	Asn	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Leu	Gly
1				5				10					15		
Asp	Thr	Ile	Thr	Ile	Thr	Cys	Trp	Tyr	Gln	Gln	Lys	Lys	Gly	Asn	Ile
			20					25					30		
Pro	Lys	Leu	Leu	Ile	Tyr	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly
		35				40					45				
Ser	Gly	Thr	Gly	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp
	50					55					60				
Ile	Ala	Thr	Tyr	Tyr	Cys	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Glu	Ile	Lys
65					70					75					80

<210> 19

<211> 80

<212> PRT

<213> Mus musculus

<400> 19

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Val	Ser	Ala	Gly
1				5				10					15		
Asp	Lys	Val	Thr	Met	Ser	Cys	Trp	Tyr	Gln	Gln	Lys	Pro	Trp	Gln	Pro
			20					25					30		
Pro	Lys	Leu	Leu	Ile	Tyr	Gly	Val	Pro	Asp	Arg	Phe	Thr	Gly	Ser	Gly
		35				40					45				
Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Val	Gln	Ala	Glu	Asp

SEQLIST

50 55 60  
Leu Ala val Tyr Tyr Cys Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys  
65 70 75 80

<210> 20  
<211> 80  
<212> PRT  
<213> Mus musculus

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Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser val Gly  
1 5 10 15  
Glu Thr val Thr Ile Thr Cys Trp Tyr Gln Gln Lys Gln Gly Lys Ser  
20 25 30  
Pro Gln Leu Leu val Tyr Gly val Pro Ser Arg Phe Ser Gly Ser Gly  
35 40 45  
Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn Ser Leu Gln Pro Glu Asp  
50 55 60  
Phe Gly Ser Tyr Tyr Cys Phe Ser Asp Gly Thr Arg Leu Glu Ile Lys  
65 70 75 80

<210> 21  
<211> 80  
<212> PRT  
<213> Mus musculus

<400> 21  
Ser Ile val Met Thr Gln Thr Pro Lys Phe Leu Pro Val Ser Ala Gly  
1 5 10 15  
Asp Arg val Thr Met Thr Cys Trp Tyr Gln Gln Lys Pro Gly Gln Ser  
20 25 30  
Pro Lys Leu Leu Ile Tyr Gly val Pro Asp Arg Phe Thr Gly Ser Gly  
35 40 45  
Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser val Gln val Glu Asp  
50 55 60  
Leu Ala val Tyr Phe Cys Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys  
65 70 75 80

<210> 22  
<211> 79  
<212> PRT  
<213> Oryctolagus cuniculus

<400> 22  
Gln Pro val Leu Thr Gln Ser Pro Ser Ala Ala Ala Ala Leu Gly Ala  
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Ser Ala Lys Leu Thr Cys Trp Tyr Gln His Gln Lys Gly Glu Ala Pro  
20 25 30  
Arg Tyr Leu Asp Gly Gly val Pro Asp Arg Phe Ser Gly Ser Ser Ser  
35 40 45  
Gly Ala Asp Arg Tyr Leu Ile Ser Ser val Gln Ala Asp Asp Glu  
50 55 60  
Ala Asp Tyr Tyr Cys Phe Gly Gly Gly Thr Gln Leu Thr val Thr  
65 70 75

<210> 23  
<211> 79  
<212> PRT  
<213> Oryctolagus cuniculus

# SEQLIST

<400> 23

Gln Pro Val Leu Thr Gln Ser Pro Ser Val Ser Ala Ala Leu Gly Ala  
 1 5 10 15  
 Ser Ala Arg Leu Thr Cys Trp Tyr Gln Gln Gln Gln Gly Glu Ala Pro  
 20 25 30  
 Arg Tyr Leu Asp Gly Gly Val Pro Asp Arg Phe Ser Gly Ser Ser Ser  
 35 40 45  
 Gly Ala Asp Arg Tyr Leu Ile Pro Ser Val Gln Ala Asp Asp Glu  
 50 55 60  
 Ala Asp Tyr Tyr Cys Phe Gly Gly Gly Thr Gln Leu Thr Val Thr  
 65 70 75

<210> 24

<211> 79

<212> PRT

<213> Homo sapiens

<400> 24

Gln Pro Val Leu Thr Gln Ser Ser Ser Ala Ser Ala Ser Leu Gly Ser  
 1 5 10 15  
 Ser Val Lys Leu Thr Cys Trp His Gln Gln Gln Pro Gly Lys Ala Pro  
 20 25 30  
 Arg Tyr Leu Met Lys Gly Val Pro Asp Arg Phe Ser Gly Ser Ser Ser  
 35 40 45  
 Gly Ala Asp Arg Tyr Leu Thr Ile Ser Asn Leu Gln Leu Glu Asp Glu  
 50 55 60  
 Ala Asp Tyr Tyr Cys Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 65 70 75

<210> 25

<211> 79

<212> PRT

<213> Homo sapiens

<400> 25

Gln Leu Val Leu Thr Gln Ser Pro Ser Ala Ser Ala Ser Leu Gly Ala  
 1 5 10 15  
 Ser Val Lys Leu Thr Cys Trp His Gln Gln Gln Pro Glu Lys Gly Pro  
 20 25 30  
 Arg Tyr Leu Met Lys Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser  
 35 40 45  
 Gly Ala Glu Arg Tyr Leu Thr Ile Ser Ser Leu Gln Ser Glu Asp Glu  
 50 55 60  
 Ala Asp Tyr Tyr Cys Phe Gly Thr Gly Thr Lys Val Thr Val Leu  
 65 70 75

<210> 26

<211> 79

<212> PRT

<213> Mus musculus

<400> 26

Gln Leu Val Leu Thr Gln Ser Ser Ser Ala Ser Phe Ser Leu Gly Ala  
 1 5 10 15  
 Ser Ala Lys Leu Thr Cys Trp Tyr Gln Gln Gln Pro Leu Lys Pro Pro  
 20 25 30  
 Lys Tyr Val Met Glu Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser  
 35 40 45  
 Gly Ala Asp Arg Tyr Leu Ser Ile Ser Asn Ile Gln Pro Glu Asp Glu



SEQLIST

50	55	60	
Ala Ile Tyr Ile Cys Phe Gly Gly Gly Thr Lys Val Thr Val Leu			
65	70	75	

<210> 27  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 27	Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr	
1	5	10
		15

<210> 28  
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 <213> Artificial Sequence

<220>  
 <223> Oligo primer

<400> 28	tcgcactcaa cacagacgct cacc	24
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<210> 29  
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<220>  
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<400> 29	atggagactg ggctgcgctg gctt	24
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<400> 31	ttgggggggaa gatgaagaca gacgg	25
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<223> oligo primer

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24

<210> 33  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> oligo primer

<400> 33  
gccctggcag gcgtctcrct cta

23

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<212> PRT  
<213> Oryctolagus cuniculus

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Asp Ile Val Met Thr Gln Thr Pro Ser Ser Val Ser Ala Ala Val Gly  
1 5 10 15  
Gly Thr Val Thr Ile Lys Cys Gln Ala Ser Asp Asn Ile Tyr Ser Leu  
20 25 30  
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile  
35 40 45  
Tyr Tyr Thr Ser Asp Leu Thr Ser Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60  
Ser Gly Tyr Gly Thr Glu Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys  
65 70 75 80  
Ala Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Tyr His Tyr Ser Lys Ser  
85 90 95  
Ser Thr Tyr Val Asn Val Phe Gly Gly Gly Thr Glu Val Val Val Lys  
100 105 110  
Gly

<210> 35  
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<212> PRT  
<213> Oryctolagus cuniculus

<400> 35  
Gln Ser Leu Glu Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Ala Ser  
1 5 10 15  
Leu Ala Leu Thr Cys Lys Ala Ser Gly Phe Ser Phe Ser Leu Ser Phe  
20 25 30  
Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile  
35 40 45  
Ala Cys Ile Tyr Ser Gly Ser Ser Gly Ser Thr Tyr Tyr Ala Ser Trp  
50 55 60  
Ala Lys Gly Arg Phe Thr Ile Ser Lys Thr Ser Ala Thr Thr Val Thr  
Page 10

SEQLIST

65					70					75					80
Leu	Gln	Met	Thr	Thr	Leu	Thr	Ala	Ala	Asp	Thr	Ala	Thr	Tyr	Phe	Cys
				85					90					95	
Ala	Arg	Ser	Ala	Ser	Ser	Thr	Thr	Phe	His	Tyr	Phe	Asn	Leu	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
		115					120								

<210> 36  
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 <212> PRT  
 <213> Mus musculus

<400> 36

Glu	Val	Lys	Leu	Gln	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5				10						15	
Ser	Leu	Lys	Leu	Ser	Cys	Ala	Thr	Ser	Gly	Phe	Thr	Phe	Ser	Trp	Val
			20					25					30		
Arg	Gln	Thr	Pro	Glu	Lys	Arg	Leu	Glu	Trp	Val	Ala	Arg	Phe	Thr	Ile
		35					40					45			
Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Ser	Arg	Leu
		50				55					60				
Lys	Ser	Glu	Asp	Thr	Ala	Met	Tyr	Tyr	Cys	Ala	Arg	Trp	Gly	Gln	Gly
65					70				75					80	
Thr	Thr	Val	Thr	Val	Ser	Ser									
				85											

<210> 37  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<400> 37

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Val	Ser	Trp	Val
			20					25					30		
Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Arg	Phe	Thr	Ile
		35					40					45			
Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu
		50				55					60				
Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Arg	Trp	Gly	Gln	Gly
65					70				75					80	
Thr	Leu	Val	Thr	Val	Ser	Ser									
				85											

<210> 38  
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 <212> PRT  
 <213> Oryctolagus cuniculus

<400> 38

Gln	Ser	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Lys	Pro	Gly	Ala	Ser
1				5				10						15	
Leu	Ala	Leu	Thr	Cys	Lys	Ala	Ser	Gly	Phe	Ser	Phe	Ser	Trp	Val	Arg
			20					25					30		
Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile	Ala	Arg	Phe	Thr	Ile	Ser
		35				40						45			
Lys	Thr	Ser	Ala	Thr	Thr	Val	Thr	Leu	Gln	Met	Thr	Thr	Leu	Thr	Ala
	50					55				60					

SEQLIST

Ala Asp Thr Ala Thr Tyr Phe Cys Ala Arg Trp Gly Gln Gly Thr Leu  
 65 70 75 80  
 Val Thr Val Ser Ser  
 85

<210> 39  
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 <212> PRT  
 <213> Oryctolagus cuniculus

<400> 39  
 Gln Ser Val Glu Glu Ser Gly Gly Arg Leu Val Thr Pro Gly Thr Pro  
 1 5 10 15  
 Leu Thr Leu Thr Cys Thr Val Ser Gly Phe Ser Leu Ser Trp Val Arg  
 20 25 30  
 Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly Arg Phe Thr Ile Ser  
 35 40 45  
 Lys Thr Ser Thr Thr Val Asp Leu Lys Ile Thr Ser Pro Thr Thr Glu  
 50 55 60  
 Asp Thr Ala Thr Tyr Phe Cys Ala Arg Trp Gly Thr Gly Thr Leu Val  
 65 70 75 80  
 Thr Ile Ser Ser

<210> 40  
 <211> 86  
 <212> PRT  
 <213> Oryctolagus cuniculus

<400> 40  
 Gln Ser Val Lys Glu Ser Glu Gly Gly Leu Phe Lys Pro Thr Asp Thr  
 1 5 10 15  
 Leu Thr Leu Thr Cys Thr Val Ser Gly Phe Ser Leu Ser Trp Val Arg  
 20 25 30  
 Gln Ala Pro Gly Asn Gly Leu Glu Trp Ile Gly Arg Ser Thr Ile Thr  
 35 40 45  
 Arg Asn Thr Asn Leu Asn Thr Val Thr Leu Lys Met Thr Ser Leu Thr  
 50 55 60  
 Ala Ala Asp Thr Ala Thr Tyr Phe Cys Ala Arg Trp Gly Gln Gly Thr  
 65 70 75 80  
 Leu Val Thr Val Ser Ser  
 85

<210> 41  
 <211> 85  
 <212> PRT  
 <213> Oryctolagus cuniculus

<400> 41  
 Gln Ser Leu Glu Glu Ser Gly Gly Asp Leu Val Lys Pro Gly Ala Ser  
 1 5 10 15  
 Leu Thr Leu Thr Cys Thr Ala Ser Gly Phe Ser Phe Ser Trp Val Arg  
 20 25 30  
 Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Ala Arg Phe Thr Ile Ser  
 35 40 45  
 Lys Thr Ser Ser Thr Thr Val Thr Leu Gln Met Thr Ser Leu Thr Ala  
 50 55 60  
 Ala Asp Thr Ala Thr Tyr Phe Cys Ala Arg Trp Gly Pro Gly Thr Leu  
 65 70 75 80  
 Val Thr Val Ser Ser

# SEQLIST

85

<210> 42  
<211> 87  
<212> PRT  
<213> Homo sapiens

<400> 42  
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15  
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Val  
20 25 30  
Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Phe Thr Ile  
35 40 45  
Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu  
50 55 60  
Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Trp Gly Arg Gly  
65 70 75 80  
Thr Leu Val Thr Val Ser Ser  
85

<210> 43  
<211> 87  
<212> PRT  
<213> Homo sapiens

<400> 43  
Glu Val Gln Leu Val Glu Thr Gly Gly Gly Leu Ile Gln Pro Gly Gly  
1 5 10 15  
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Trp Val  
20 25 30  
Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Phe Thr Ile  
35 40 45  
Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu  
50 55 60  
Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Trp Gly Gln Gly  
65 70 75 80  
Thr Met Val Thr Val Ser Ser  
85

<210> 44  
<211> 87  
<212> PRT  
<213> Homo sapiens

<400> 44  
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15  
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Trp Val  
20 25 30  
Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Phe Thr Ile  
35 40 45  
Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu  
50 55 60  
Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Trp Gly Gln Gly  
65 70 75 80  
Thr Thr Val Thr Val Ser Ser  
85

# SEQLIST

<210> 45  
 <211> 87  
 <212> PRT  
 <213> Mus musculus

<400> 45  
 Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln  
 1 5 10 15  
 Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Trp Val  
 20 25 30  
 Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu Gly Arg Leu Ser Ile  
 35 40 45  
 Ser Lys Asp Asn Ser Lys Ser Gln Val Phe Leu Lys Met Asn Ser Leu  
 50 55 60  
 Gln Thr Asp Asp Thr Ala Met Tyr Tyr Cys Ala Arg Trp Gly Gln Gly  
 65 70 75 80  
 Thr Leu Val Thr Val Ser Ala  
 85

<210> 46  
 <211> 87  
 <212> PRT  
 <213> Mus musculus

<400> 46  
 Glu Val Met Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
 1 5 10 15  
 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Val  
 20 25 30  
 Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val Ala Arg Phe Thr Ile  
 35 40 45  
 Ser Arg Asp Asn Ala Lys Asn Asn Leu Tyr Leu Gln Met Ser Ser Leu  
 50 55 60  
 Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg Trp Gly Ala Gly  
 65 70 75 80  
 Thr Thr Val Thr Val Ser Ser  
 85

<210> 47  
 <211> 87  
 <212> PRT  
 <213> Mus musculus

<400> 47  
 Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
 1 5 10 15  
 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Val  
 20 25 30  
 Arg Gln Ser Pro Glu Lys Arg Leu Glu Trp Val Ala Arg Phe Thr Ile  
 35 40 45  
 Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu  
 50 55 60  
 Lys Ser Glu Asp Thr Ala Met Tyr Tyr Cys Thr Arg Trp Gly Gln Gly  
 65 70 75 80  
 Thr Thr Leu Thr Val Ser Ser  
 85

<210> 48  
 <211> 80  
 <212> PRT

# SEQLIST

<213> Mus musculus

<400> 48

```

Asp Ile Val Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Leu Gly
 1           5           10           15
Asp Thr Ile Thr Ile Thr Cys Trp Tyr Gln Gln Lys Pro Gly Asn Ile
           20           25           30
Pro Lys Leu Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly
           35           40           45
Ser Gly Thr Gly Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp
           50           55           60
Ile Ala Thr Tyr Tyr Cys Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
65           70           75           80

```

<210> 49

<211> 80

<212> PRT

<213> Homo sapiens

<400> 49

```

Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
 1           5           10           15
Asp Arg Val Thr Ile Thr Cys Trp Tyr Gln Gln Lys Pro Gly Lys Ala
           20           25           30
Pro Lys Leu Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly
           35           40           45
Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp
           50           55           60
Phe Ala Thr Tyr Tyr Cys Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
65           70           75           80

```

<210> 50

<211> 80

<212> PRT

<213> Oryctolagus cuniculus

<400> 50

```

Asp Ile Val Met Thr Gln Thr Pro Ser Ser Val Ser Ala Ala Val Gly
 1           5           10           15
Gly Thr Val Thr Ile Lys Cys Trp Tyr Gln Gln Lys Pro Gly Gln Pro
           20           25           30
Pro Lys Leu Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly
           35           40           45
Tyr Gly Thr Glu Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys Ala Asp
           50           55           60
Ala Ala Thr Tyr Tyr Cys Phe Gly Gly Gly Thr Glu Val Val Val Lys
65           70           75           80

```

<210> 51

<211> 80

<212> PRT

<213> Oryctolagus cuniculus

<400> 51

```

Ala Tyr Asp Met Thr Gln Thr Pro Ala Ser Val Glu Val Ala Val Gly
 1           5           10           15
Gly Thr Val Thr Ile Lys Cys Trp Tyr Gln Gln Lys Pro Gly Gln Arg
           20           25           30
Pro Lys Leu Leu Ile Tyr Gly Val Ser Ser Arg Phe Lys Gly Ser Gly
           35           40           45

```

# SEQLIST

Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Gly Val Glu Cys Ala Asp  
 50 55 60  
 Ala Ala Thr Tyr Tyr Cys Phe Gly Gly Gly Thr Glu Val Val Val Lys  
 65 70 75 80

<210> 52  
 <211> 80  
 <212> PRT  
 <213> Oryctolagus cuniculus

<400> 52  
 Asp Val Val Met Thr Gln Thr Pro Ala Ser Val Ser Glu Pro Val Gly  
 1 5 10 15  
 Gly Thr Val Thr Ile Lys Cys Trp Tyr Gln Gln Lys Pro Gly Gln Pro  
 20 25 30  
 Pro Lys Leu Leu Ile Ser Gly Val Ser Ser Arg Phe Lys Ala Ser Arg  
 35 40 45  
 Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Asp Leu Glu Cys Ala Asp  
 50 55 60  
 Ala Ala Thr Tyr Tyr Cys Phe Gly Gly Gly Thr Lys Val Val Val Glu  
 65 70 75 80

<210> 53  
 <211> 80  
 <212> PRT  
 <213> Oryctolagus cuniculus

<400> 53  
 Ala Leu Val Met Thr Gln Thr Pro Ala Ser Val Ser Ala Ala Val Gly  
 1 5 10 15  
 Gly Thr Val Thr Ile Lys Cys Trp Tyr Gln Gln Lys Pro Gly Gln Pro  
 20 25 30  
 Pro Lys Leu Leu Ile Tyr Gly Val Pro Ser Arg Phe Lys Gly Ser Arg  
 35 40 45  
 Ser Gly Thr Glu Tyr Thr Leu Thr Ile Ser Gly Val Gln Arg Glu Asp  
 50 55 60  
 Ala Ala Thr Tyr Tyr Cys Phe Gly Gly Gly Thr Glu Leu Glu Ile Leu  
 65 70 75 80

<210> 54  
 <211> 80  
 <212> PRT  
 <213> Oryctolagus cuniculus

<400> 54  
 Glu Val Val Met Thr Gln Thr Pro Ala Ser Val Glu Ala Ala Val Gly  
 1 5 10 15  
 Gly Thr Val Thr Ile Lys Cys Trp Tyr Gln Gln Lys Pro Gly Gln Arg  
 20 25 30  
 Pro Asn Leu Leu Ile Tyr Gly Val Pro Ser Arg Phe Lys Gly Ser Arg  
 35 40 45  
 Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Gly Val Gln Arg Glu Asp  
 50 55 60  
 Ala Ala Thr Tyr Tyr Cys Phe Gly Thr Gly Thr Lys Val Glu Ile Lys  
 65 70 75 80

<210> 55  
 <211> 80  
 <212> PRT



# SEQLIST

<213> Homo sapiens

<400> 55

```

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1      5      10      15
Asp Arg Val Thr Ile Thr Cys Trp Tyr Gln Gln Lys Pro Gly Lys Ala
20      25      30
Pro Lys Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly
35      40      45
Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp
50      55      60
Phe Ala Thr Tyr Tyr Cys Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
65      70      75      80

```

<210> 56

<211> 80

<212> PRT

<213> Homo sapiens

<400> 56

```

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly
1      5      10      15
Asp Arg Val Thr Ile Thr Cys Trp Tyr Gln Gln Lys Pro Gly Lys Ala
20      25      30
Pro Lys Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly
35      40      45
Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp
50      55      60
Phe Ala Thr Tyr Tyr Cys Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
65      70      75      80

```

<210> 57

<211> 80

<212> PRT

<213> Homo sapiens

<400> 57

```

Ala Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1      5      10      15
Asp Arg Val Thr Ile Thr Cys Trp Tyr Gln Gln Lys Pro Gly Lys Ala
20      25      30
Pro Lys Leu Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly
35      40      45
Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp
50      55      60
Phe Ala Thr Tyr Tyr Cys Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
65      70      75      80

```

<210> 58

<211> 80

<212> PRT

<213> Homo sapiens

<400> 58

```

Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
1      5      10      15
Glu Arg Ala Thr Leu Ser Cys Trp Tyr Gln Gln Lys Pro Gly Gln Ala
20      25      30
Pro Arg Leu Leu Ile Tyr Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly
35      40      45

```

SEQLIST

Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser Glu Asp  
 50 55 60  
 Phe Ala Val Tyr Tyr Cys Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
 65 70 75 80

<210> 59  
 <211> 80  
 <212> PRT  
 <213> Mus musculus

<400> 59  
 Asp Ile Gln Met Asn Gln Ser Pro Ser Ser Leu Ser Ala Ser Leu Gly  
 1 5 10 15  
 Asp Thr Ile Thr Ile Thr Cys Trp Tyr Gln Gln Lys Lys Gly Asn Ile  
 20 25 30  
 Pro Lys Leu Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly  
 35 40 45  
 Ser Gly Thr Gly Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp  
 50 55 60  
 Ile Ala Thr Tyr Tyr Cys Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
 65 70 75 80

<210> 60  
 <211> 80  
 <212> PRT  
 <213> Mus musculus

<400> 60  
 Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ser Val Ser Ala Gly  
 1 5 10 15  
 Asp Lys Val Thr Met Ser Cys Trp Tyr Gln Gln Lys Pro Trp Gln Pro  
 20 25 30  
 Pro Lys Leu Leu Ile Tyr Gly Val Pro Asp Arg Phe Thr Gly Ser Gly  
 35 40 45  
 Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp  
 50 55 60  
 Leu Ala Val Tyr Tyr Cys Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys  
 65 70 75 80

<210> 61  
 <211> 80  
 <212> PRT  
 <213> Mus musculus

<400> 61  
 Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly  
 1 5 10 15  
 Glu Thr Val Thr Ile Thr Cys Trp Tyr Gln Gln Lys Gln Gly Lys Ser  
 20 25 30  
 Pro Gln Leu Leu Val Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly  
 35 40 45  
 Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn Ser Leu Gln Pro Glu Asp  
 50 55 60  
 Phe Gly Ser Tyr Tyr Cys Phe Ser Asp Gly Thr Arg Leu Glu Ile Lys  
 65 70 75 80

<210> 62  
 <211> 80  
 <212> PRT

# SEQLIST

<213> Mus musculus

<400> 62

Ser	Ile	Val	Met	Thr	Gln	Thr	Pro	Lys	Phe	Leu	Pro	Val	Ser	Ala	Gly
1				5					10					15	
Asp	Arg	Val	Thr	Met	Thr	Cys	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ser
			20					25					30		
Pro	Lys	Leu	Leu	Ile	Tyr	Gly	Val	Pro	Asp	Arg	Phe	Thr	Gly	Ser	Gly
		35					40					45			
Ser	Gly	Thr	Asp	Phe	Thr	Phe	Thr	Ile	Ser	Ser	Val	Gln	Val	Glu	Asp
	50					55					60				
Leu	Ala	Val	Tyr	Phe	Cys	Phe	Gly	Ala	Gly	Thr	Lys	Leu	Glu	Leu	Lys
65					70					75					80

<210> 63

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic oligopeptide

<221> VARIANT

<222> 3

<223> Xaa = Any Amino Acid

<400> 63

Gly	Gly	Xaa	Gly	Gly
1				5